LAT PROJECT DOCUMENT CHANGE NOTICE (DCN)

DCN No. LAT-XR-02240-01

SHEET 1 **OF** 1

ORIGINATOR: Gunther Haller	**PHONE:** 650-926-4257	**DATE:** 2/18/04
CHANGE TITLE: DCN for TEM Power Supply Drawings		**ORG.:**

DOCUMENT NUMBER	TITLE	NEW REV.
LAT-DS-00995	GLAST Electronics Boxes TPS Box Assy TPS Box Base	50
LAT-DS-00996	GLAST Electronics Boxes TPS Box Assy TPS Box Lid	51
LAT-DS-01482	GLAST Electronics Boxes DAQ Electronics TPS Power Supply Assy	50
LAT-DS-02388	GLAST Electronics Boxes Circuit Card Assy Tower Power Supply	50
LAT-DS-02389	GLAST Electronic Boxes DAQ Electronics Printed Wiring Board, TPS	50

CHANGE DESCRIPTION (FROM/TO):

LAT-DS-02390-50 – LAT Tower Power Supply Schematic
LAT-DS-02465-50 – GLAST Electronic Boxes Tower Power Supply TPS Heat Sink
LAT-DS-02830-50 – GLAST Electronics Boxes Cable Assy TPS Input Power
LAT-DS-02831-50 – GLAST Electronics Boxes Cable Assy TPS Output Power
LAT-DS-02548-04 – TEM Gerber Files (PWB)
LAT-DS-03598-50 – GLAST-Electronics Boxes Support, Cable Harness
LAT-TD-02391-50 – Bill of Materials

REASON FOR CHANGE:

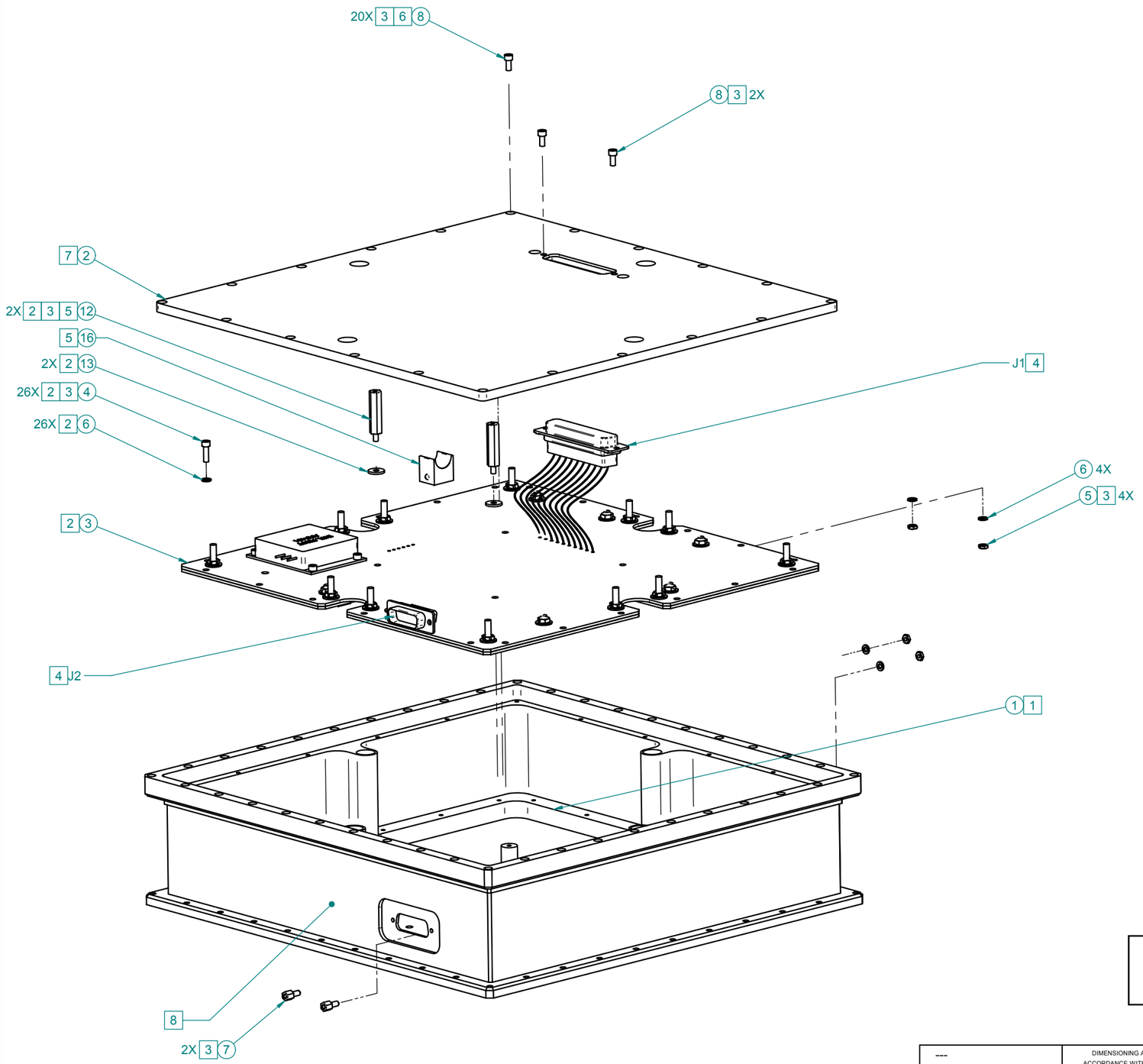
ACTION TAKEN: ☒ **Change(s) included in new release** ☐ **DCN attached to document(s), changes to be included in next revision**
☐ **Other (specify):**

DISPOSITION OF HARDWARE (IDENTIFY SERIAL NUMBERS):	**DCN DISTRIBUTION:**
☒ **No hardware affected (record change only)**	
☐ **List S/Ns which comply already:**	
☐ **List S/Ns to be reworked or scrapped:**	
☐ **List S/Ns to be built with this change:**	
☐ **List S/Ns to be retested per this change:**	
☐	

SAFETY, COST, SCHEDULE, REQUIREMENTS IMPACT? ☐ **YES** ☒ **NO**
If yes, CCB approval is required. Enter change request number:

APPROVALS	DATE	OTHER APPROVALS (specify):	DATE
ORIGINATOR: D. Tarkington (signature on file)	4/30/04	SE- Pat Hascall (signature on file)	4/30/04
ORG. MANAGER: Gunther Haller (signature on file)	5/3/04	Chief Mechanical- M. Nordby (R. Black for Nordby)	4/30/04
Electrical Lead- Dave Nelson (signature on file)	4/30/04		
PSA- Darren Marsh (signature on file)	4/30/04		
Manufacturing- Jerry Clinton (signature on file)	4/30/04		
DCC RELEASE: Natalie Cramar (signature on file)	5/3/04	Doc. Control Level: ☒ Subsystem ☐ LAT IPO ☐ GLAST Project	

REV	DESCRIPTION	DWN	CHKR	APVD	DATE
50	INITIAL FLIGHT RELEASE	DPT	AO	DN	04/04



NOTES: UNLESS OTHERWISE SPECIFIED

1. APPLY THERMALLY CONDUCTIVE ADHESIVE, ITEM 10, PER MANUFACTURERS PROCEDURES, TO BOARD MATING PERIMETER LEDGE IN BOX BASE, ITEM 1, TO ACHIEVE MINIMUM 75% AREA COVERAGE WITH MINIMAL SQUEEZE OUT. EXCESS MATERIAL TO BE CLEANED AWAY.
2. INSTALL CCA, ITEM 3, TO MATCH ORIENTATION SHOWN, INTO BOX BASE, ITEM 1, USING SCREWS, STANDOFFS, AND WASHERS, ITEMS 4 ,6, 12 AND 13. APPLY TIGHTENING TORQUE OF 5.7 +0/-0.2 IN-LBS. PER DETAIL A ON SHEET 2.
3. APPLY STAKING COMPOUND, ITEM 9, TO BOLT HEADS, IN ACCORDANCE WITH LAT-PS-03078.
4. INSTALL CONNECTORS J1 AND J2, INTO CORRESPONDING CHASSIS OPENINGS ON BOX BASE AND LID, USING JACKPOST, ITEM 7, WASHER, ITEM 6, AND NUT, ITEM 5, AS SHOWN. APPLY TIGHTENING TORQUE OF 5.7 +0/-0.2 IN-LBS.
5. INSTALL CABLE HARNESS SUPPORT, ITEM 16, USING EPOXY, ITEM 9, AT BOARD LOCATION SHOWN IN DETAIL A ON SHEET 2.
6. ATTACH J2 WIRE BUNDLE TO STANDOFFS, ITEM 12, USING CABLE TIES, ITEM 14, IN ACCORDANCE WITH LAT-PS-03078. STAKE ATTACHMENT POINTS WITH ADHESIVE COMPOUND, ITEM 15. STAKE WIRE BUNDLE TO HARNESS SUPPORT, ITEM 16, USING ADHESIVE COMPOUND, ITEM 15.
7. INSTALL LID, ITEM 2, USING SCREWS, ITEM 8. APPLY TIGHTENING TORQUE OF 5.7 +0/-0.2 IN-LBS. PER DETAIL B ON SHEET 2. STAKE SCREW HEADS WITH EPOXY, ITEM 9, PER LAT-PS-03078.
8. MARK WITH SERIAL NUMBER AFTER "LAT-DS-01482-" MARKING USING ITEM 11 IN APPROXIMATE AREA SHOWN. SERIAL NUMBER CONSISTS OF BUILD REV LETTER AND THREE DIGIT UNIQUE SERIAL CODE.

ITEM	STOCK OR PART NO	TITLE OR DESCRIPTION	QTY
16*	LAT-DS-03598	CABLE HARNESS SUPPORT	1
15*	DC6-1104	ADHESIVE, RTV, DC6-1104	AR
14*	PANDUIT PLT1M-C76	LOCKING CABLE TIE	AR
13	NAS1149CN432R	WASHER, FLAT RGLR #4, SST 300	2
12	8405K-ND	STANDOFF, AL, M-F, 4-40 X .25 HEX 1.0	2
11*	CAT-L-INK	INK, DEXTER HYSOL, 100/6 BW WHITE	AR
10*	CV-2946	ADHESIVE, THERMAL, NUSIL_CV-2946	AR
9*	HYSOL 0151	ADHESIVE, EPOXY, HYSOL_0151	AR
8	NAS1352N04-5	#4-40 UNC-3A X 0.25 SCREW, HEX SCH CAP, SST	22
7	M83513/05-17	JACKPOST, M-F, 4-40 X .188 HEX .250 LG	2
6	NAS620C4	WASHER, FLAT, SM PTN, #4, SST 300	30
5	NAS671C4	#4-40 UNC-2B NUT, MACH SCREW HEX-SMALL PATTERN	4
4	NAS1352N04-6	#4-40 UNC-3A X 0.375 SCREW, HEX SCH CAP, SST	26
3	LAT-DS-02388	TEM PWR SPLY CIRCUIT CARD ASSY	1
2*	LAT-DS-00996	TEM PWR SPLY BOX LID	1
1	LAT-DS-00995	TEM PWR SPLY BOX BASE	1

APPROVED - 5/3/04
LAT-XR-02240-01

LAT-DS-01643
NEXT ASSEMBLIES:

DIMENSIONING AND TOLERANCING IS IN ACCORDANCE WITH ASME Y14.5M-1994.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
TOLERANCES:
BREAK EDGES .005-.015
INTERNAL CORNERS R.015 MAX
FRACTIONS ± ---
DEC .XX± .01
.XXX± .005
.XXXX± ---
ANGLE ± .5°
63 ALL SURF

SCALE: 1:1

DO NOT SCALE DRAWING

CAD FILE NAME: LAT-DS-01482-50.dft

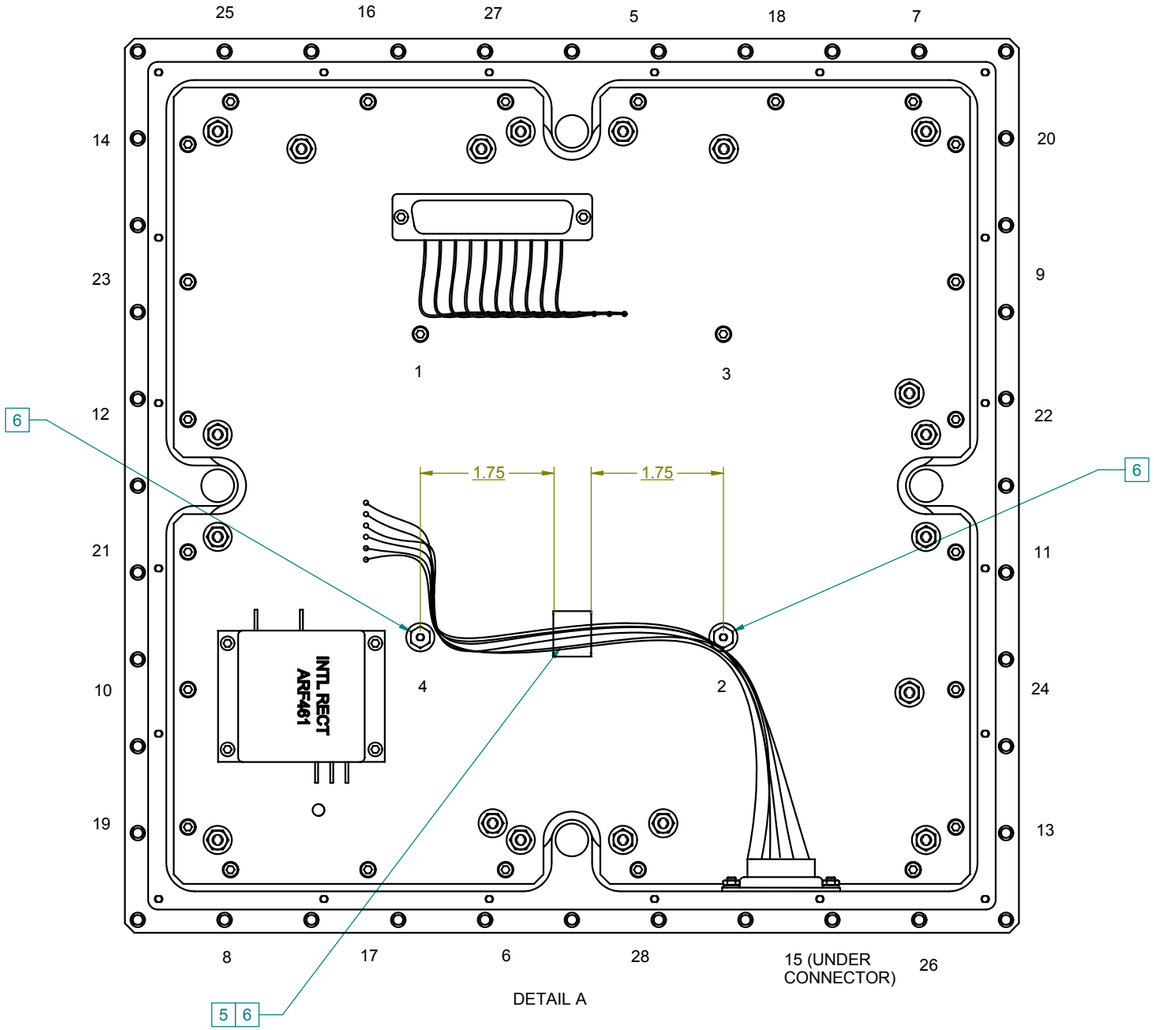
STANFORD LINEAR ACCELERATOR CENTER
U.S. DEPARTMENT OF ENERGY
STANFORD UNIVERSITY STANFORD, CALIFORNIA

	DATE	APPROVALS
ENGR	D.TARKINGTON	D. NELSON
DWN	D.TARKINGTON	---
CHKR	---	---

GLAST
ELECTRONICS BOXES
DAQ ELECTRONICS
TOWER POWER SUPPLY ASSY

DRAWING NUMBER LAT-DS-01482
REVISION NUMBER 50
D
SH 1 OF 2

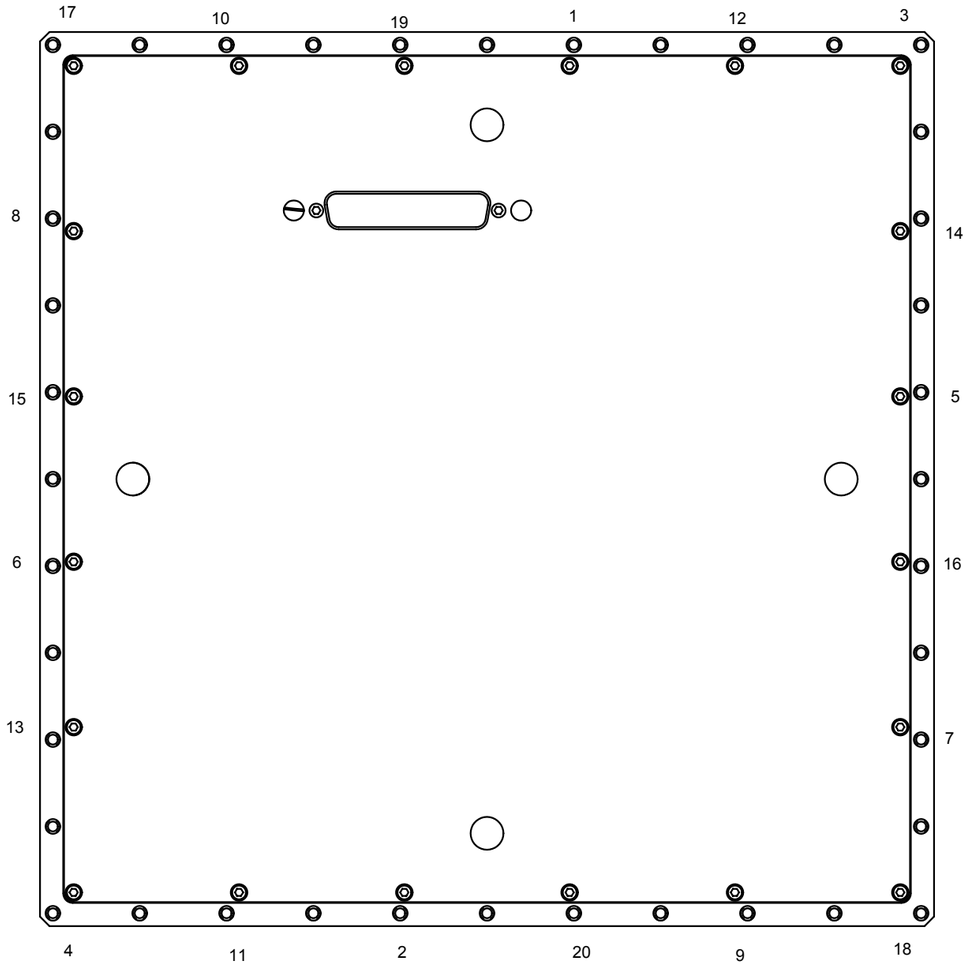
REV	DESCRIPTION	DWN	CHKR	APVD	DATE



DETAIL A

TORQUE SEQUENCE FOR CCA, ITEM 3, MOUNTING FASTENERS, ITEM 4
SEE NOTE 2 ON SHEET 1 OF DRAWING.

REPEAT SEQUENCE 2X.



DETAIL B

TORQUE SEQUENCE FOR LID, ITEM 2, MOUNTING FASTENERS, ITEM 8
SEE NOTE 6 ON SHEET 1 OF DRAWING.

REPEAT SEQUENCE 2X.

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LAT-DS-01643
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TOLERANCES:
BREAK EDGES .005-.015
INTERNAL CORNERS R.015 MAX
FRACTIONS ± ---
DEC .XX± .01
.XXX± .005
.XXXX± ---
ANGLE ± .5°
63
ALL SURF

SCALE: 1:1

DO NOT SCALE DRAWING

CAD FILE NAME: LAT-DS-01482-50.dft

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CHKR	---	---

GLAST
ELECTRONICS BOXES
DAQ ELECTRONICS
TOWER POWER SUPPLY ASSY

DRAWING NUMBER LAT-DS-01482

REVISION NUMBER 50 D

SH 2 OF 2